

Response to Non-Final Office Action
Docket No. A0836RECEIVED
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Amendments to the Claims

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1 Claim 1 (canceled).

1 Claim 2 (canceled).

1 Claim 3 (canceled).

1 4. (currently amended): ~~The method of claim 3, wherein the step of~~
2 ~~generating a message tree comprises:~~ A method for presenting email threads,
3 comprising:
4 identifying logical components of messages in an e-mail thread,
5 comprising:
6 generating a message tree comprising nodes that recursively divide
7 each message into a main body, nested excerpts from other messages, and lowest
8 level logical components, comprising:
9 performing a top-down, recursive descent analysis to
10 recursively divide each of the messages into sections, each section being one of a
11 main body of the message, an incorporated excerpt, a suffixed excerpt, the body
12 of an excerpt, and an excerpt within an excerpt; message into the nodes; and
13 decomposing each section node into the logical
14 components using a weighted finite-state machine;
15 determining relationships between the messages in the thread using the
16 logical components; and
17 generating a document based upon the relationships by identifying and
18 removing redundant logical components in each of the messages in the thread.

Response to Non-Final Office Action
Docket No. A0836

1 5. (currently amended): The method of claim 4, wherein the step of
2 decomposing comprises:
3 logically concatenating subsections of the main body that ~~[[is]]~~ are
4 separated by incorporated excerpts; and
5 applying ~~[[a]]~~ the weighted finite state machine to the ~~[[result]]~~
6 subsections.

1 6. (original): The method of claim 4, wherein the step of
2 decomposing comprises:
3 building a weighted network using a weighted finite state grammar;
4 identifying the maximally weighted path through the network; and
5 traversing the maximally weighted path to identify the logical components
6 of the section.

1 7. (currently amended): The method of claim ~~[[1,]]~~ 4, wherein the
2 document includes ~~[[a]]~~ compressed form of each forms of the messages.

1 8. (currently amended): The method of claim 7, wherein each of the
2 compressed forms comprises non-extraneous parts of ~~[[the]]~~ primary text and
3 abbreviated forms of incorporated excerpts.

1 9. (currently amended): The method of claim ~~[[1,]]~~ 4, wherein the
2 document includes ~~[[a]]~~ replies as annotations form annotation forms for each of
3 the messages.

1 Claim 10 (canceled).

1 Claim 11 (canceled).

1 Claim 12 (canceled).

1 13. (currently amended): ~~The system of claim 12, wherein the~~
2 processor is adapted A computer controlled display system comprising:

Response to Non-Final Office Action
Docket No. A0836

3 a display for presenting e-mail threads on a viewing area; and
4 a processor that is adapted to identify logical components of messages in
5 an e-mail thread, comprising:
6 a message tree that includes nodes that recursively divide each
7 message into a main body, nested excerpts from other messages, and lowest level
8 logical components, comprising:
9 a top down descent analyzer to perform a top-down,
10 recursive descent analysis to create nodes of the message ~~[[tree]]~~ tree; and
11 a weighted finite state machine to analyze divided extents
12 using a weighted finite state machine;
13 relationships determined by the processor between each message in the
14 thread using the logical components; and
15 a medium generated based upon the determined relationships, wherein any
16 redundant logical components in each of the messages in the thread are identified
17 and removed.

1 14. (currently amended): The system of claim ~~[[12,]]~~ 13, wherein the
2 processor is adapted to identify the maximally weighted path through the
3 weighted finite state machine, and to develop a sub tree by traversing the
4 maximally weighted path.

1 15. (currently amended): The system of claim ~~[[10,]]~~ 13, wherein the
2 document includes ~~[[a]]~~ compressed form of each forms of the messages.

1 16. (currently amended): The system of claim 15, wherein each of the
2 compressed form contains non-extraneous parts of ~~[[the]]~~ primary text.

1 17. (currently amended): The system of claim ~~[[10,]]~~ 13, wherein the
2 document includes ~~[[a]]~~ replies as annotations form annotation forms for each of
3 the messages.

1 Claim 18 (canceled).

Response to Non-Final Office Action
Docket No. A0836

1 Claim 19 (canceled).

1 Claim 20 (canceled).

1 21. (currently amended): ~~The information storage media of claim 18,~~
2 ~~further comprising; A computer-readable storage medium to store computer~~
3 ~~codes, comprising:~~
4 information that presents e-mail threads on a viewing area of a display;
5 information that identifies logical components of messages in an e-mail
6 thread, comprising:
7 information that generates a message tree that includes nodes that
8 recursively divide each message into a main body, nested excerpts from other
9 messages, and lowest level logical components, comprising:
10 information that performs a top-down, recursive descent
11 analysis to create some nodes of the message tree; and
12 information that analyzes divided extents using a weighted
13 finite state machine;
14 information that determines relationships between each message in the
15 thread using the logical components; and
16 information that generates a medium based upon the determined
17 relationships, wherein any redundant logical components in each of the messages
18 in the thread are identified and removed.

1 22. (original): The information storage media of claim 21, further
2 comprising;
3 information that identifies a maximally weighted path through the
4 weighted finite state machine; and
5 information that develops a sub tree by traversing the maximally weighted
6 path.

Response to Non-Final Office Action
Docket No. A0836

1 23. (currently amended): The ~~information storage media~~ storage
2 medium of claim ~~[[18,]]~~ 21, wherein the medium includes ~~[[a]]~~ compressed form
3 ~~of each forms~~ of the messages.

1 24. (currently amended): The ~~system~~ storage medium of claim 23,
2 wherein each of the compressed form contains non-extraneous parts of ~~[[the]]~~
3 primary text.

1 25. (currently amended): The ~~system~~ storage medium of claim ~~[[18,]]~~
2 21, wherein the medium includes ~~[[a]]~~ replies as ~~annotations form~~ annotation
3 forms for each of the messages.

1 26. (currently amended): A computer system for presenting email
2 threads, comprising:

3 e-mail threads presented in a medium as semi-connected text; and
4 a computer processor for:

5 (a) identifying logical components of ~~each message in a thread;~~
6 messages in an e-mail thread, comprising:

7 (1) performing a top down descent to recursively divide
8 each message into nodes; and

9 (2) decomposing each node into the logical components
10 using a weighted finite state machine;

11 (b) determining relationships between ~~the messages~~ each message
12 in the thread using the logical components; and

13 (c) generating a medium based upon the determined relationships,
14 wherein ~~the e-mail threads are presented in the medium as semi-connected text;~~
15 ~~and wherein any redundant~~ logical components ~~that are identified~~ in each of the
16 messages in the thread are identified and removed ~~during the generating step so~~
17 ~~that the generated medium does not include the redundant logical components.~~

**Response to Non-Final Office Action
Docket No. A0836**

- 1 27. (original): The system of claim 26, wherein the medium is one of a
2 human readable document and a computer readable document.